

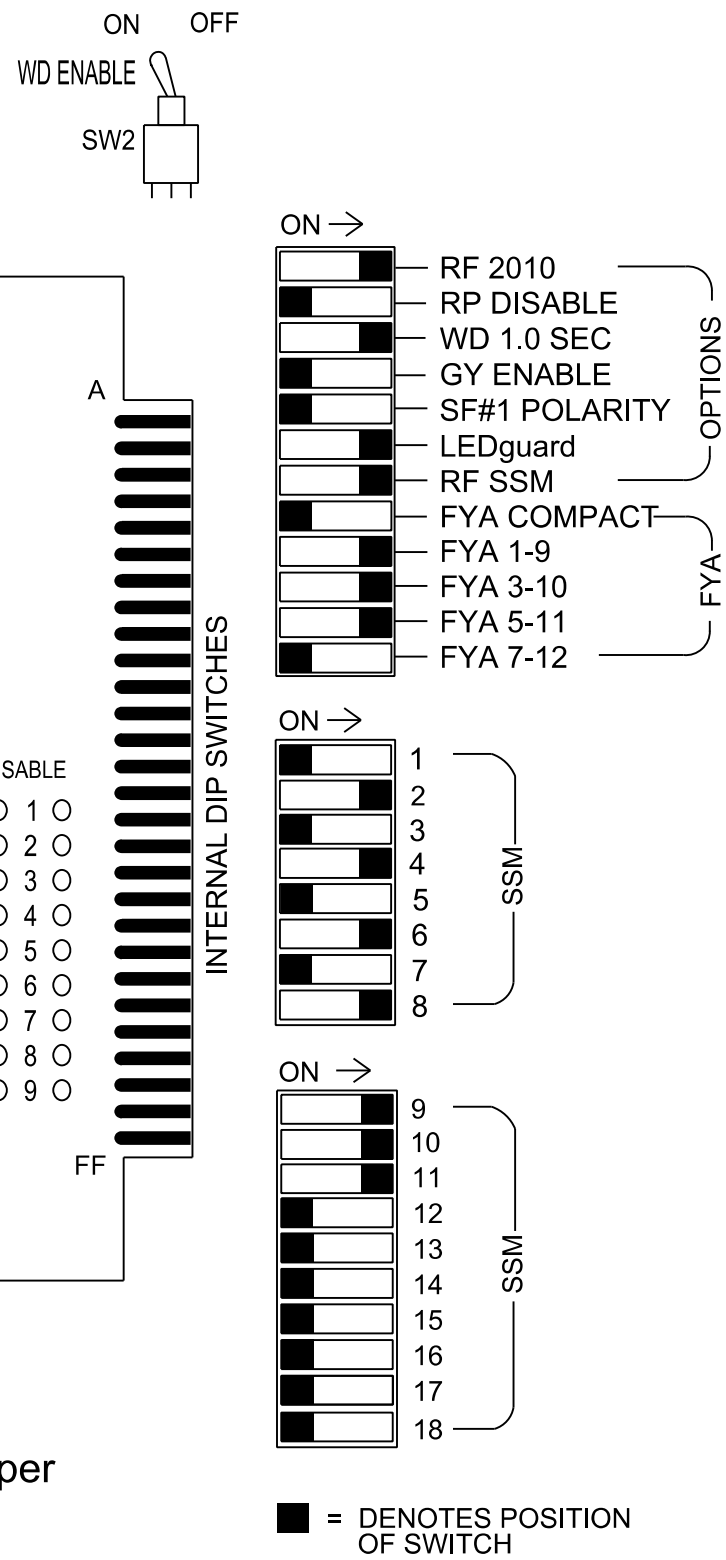
(remove jumpers and set switches as shown)

18 CHANNEL PROGRAM CARD

COMPONENT SIDE

YELLOW DISABLE

10-18 11-18 12-18 13-18 14-18 15-18 16-18 17-18 1-18
 10-17 11-17 12-17 13-17 14-17 15-17 16-17 1-17
 10-16 11-16 12-16 13-16 14-16 15-16 3-18 2-17 1-16
 10-15 11-15 12-15 13-15 14-15 4-18 3-17 2-16 1-15
 10-14 11-14 12-14 13-14 5-18 4-17 3-16 2-15 1-14
 10-13 11-13 12-13 6-18 5-17 4-16 3-15 2-14 1-13
 10-12 11-12 7-18 6-17 5-16 4-15 3-14 2-13 1-12
 10-11 8-18 7-17 6-16 5-15 4-14 3-13 2-12 1-11
 9-18 8-17 7-16 6-15 5-14 4-13 3-12 2-11 1-10
 9-17 8-16 7-15 6-14 5-13 4-12 3-11 2-10 1-9
 9-16 8-15 7-14 6-13 5-12 4-11 3-10 2-9 1-8
 9-15 8-14 7-13 6-12 5-11 4-10 3-9 2-8 1-7
 9-14 8-13 7-12 6-11 5-10 4-9 3-8 2-7 1-6
 9-13 8-12 7-11 6-10 5-9 4-8 3-7 2-6 1-5
 9-12 8-11 7-10 6-9 5-8 4-7 3-6 2-5 1-4
 9-11 8-10 7-9 6-8 5-7 4-6 3-5 2-4 1-3
 9-10 8-9 7-8 6-7 5-6 4-5 3-4 2-3 1-2



NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that the Red Enable is active at all times during normal operation.
4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

(front view)

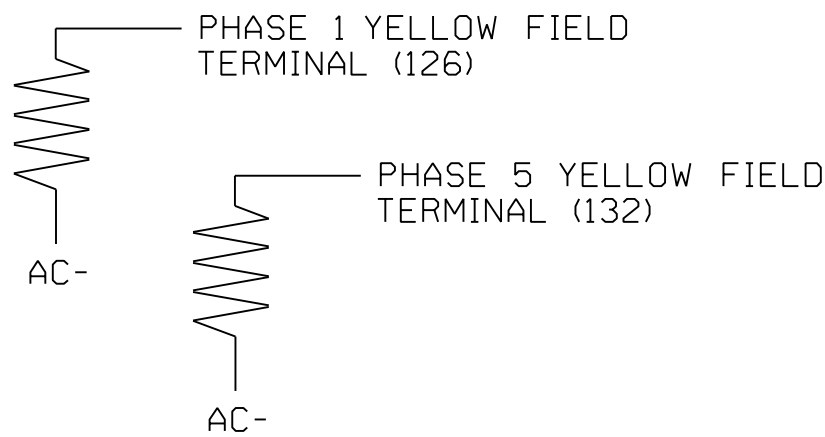
[illegible]

EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

(install resistors as shown)

ACCEPTABLE VALUES	
VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

For zones 1A, 2A, 4A, 5A, 6A, 8A, and 8B install a video detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

For zones 1A and 5A, inputs associated with the typical slots for a NCDOT installation are compatible with time of day instructions located on sheet 2 of this electrical details.

1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
2. Program phases 4 and 8 for Dual Entry.
3. Program controller to start up in phase 2 Green No Walk and phase 6 Green No Walk.
4. Program phases 4 and 8 for Simultaneous Start.

5. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

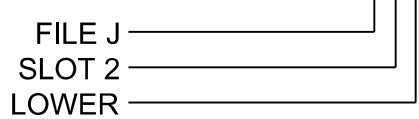
Controller.....	2070LX
Cabinet.....	332 w/ Aux
Software.....	Q-Free MAXTIME
Cabinet Mount.....	Base
Output File Positions.....	18 With Aux. Output File
Load Switches Used.....	S1, S2, S5, S7, S8, S9, S11, S12 AUX S1, AUX S2, AUX S4
Phases Used.....	1, 2, 4, 5, 6, 6PED, 8, 8PED
Overlap "1".....	*
Overlap "2".....	*
Overlap "3".....	*
Overlap "4".....	NOT USED

*See overlap programming detail on sheet 2

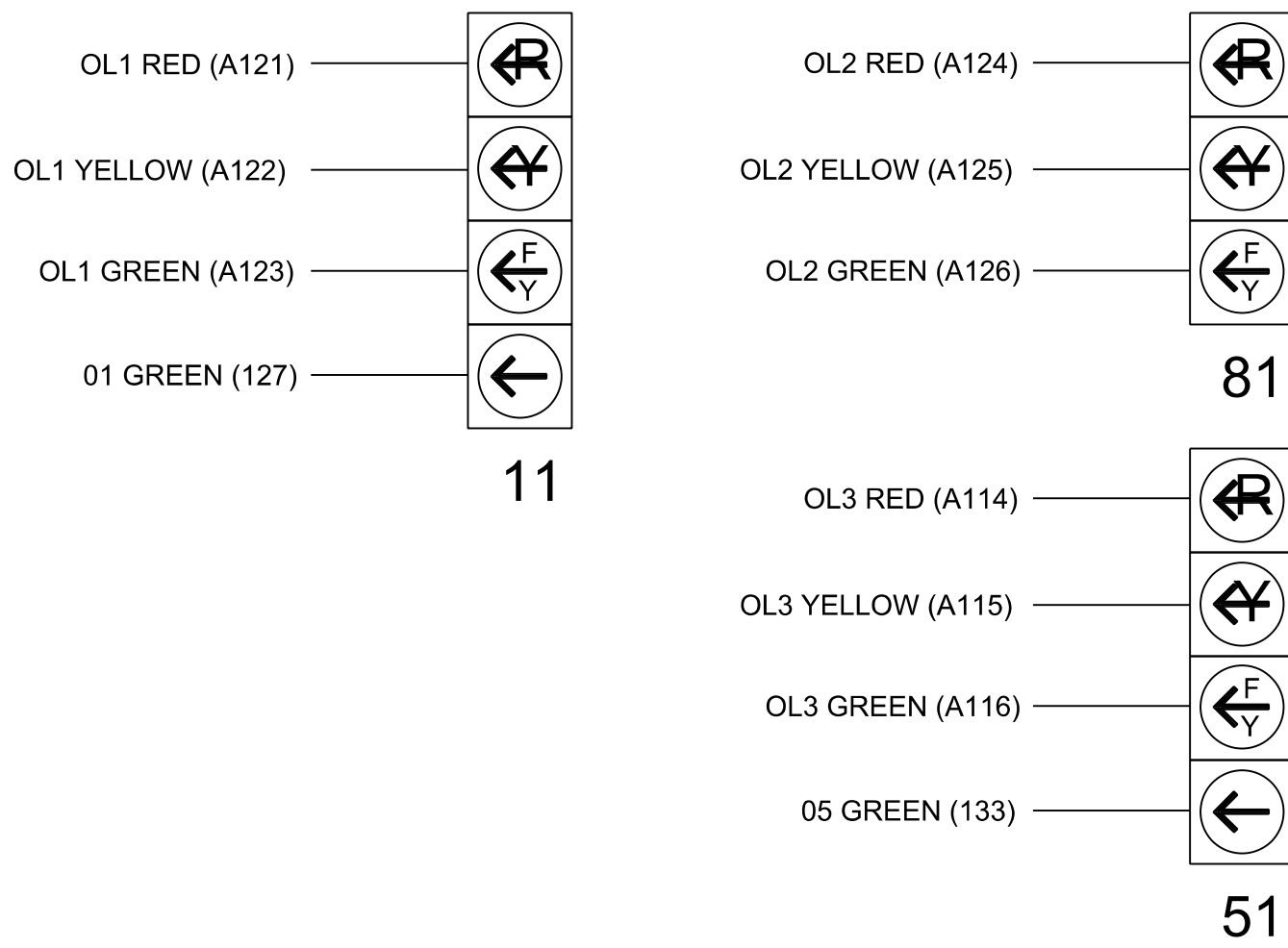
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A	TB2-1,2	I1U	56	18 -	1★ 29★	1 6	15.0 3.0		X X		X X	 X
5A	TB3-1,2	J1U	55	17 -	15★ 31★	5 2	15.0 3.0		X X		X X	 X
PED PUSH BUTTONS							NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOT I13.					
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						
P81,P82	TB8-8,9	I13L	70	36	8	PED 8						

★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on Sheet 2.

INPUT FILE POSITION LEGEND: J2L

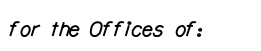


(wire signal heads as shown)



	THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1916T3 DESIGNED: March 2025 SEALED: March 10, 2025 REVISED:
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SIGNAL UPGRADE - TEMPORARY DESIGN 3
(CONSTRUCTION PHASE IV STEP 2 THRU STEP 3)
ELECTRICAL DETAIL - SHEET 1 OF 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:	SR 2052 (ROGER RD.) AT HERITAGE BRANCH RD AND HERITAGE POINTE SHoppes	SEAL 																																
Prepared for the Offices of: 	DIVISION 5 WAKE COUNTY WAKE FOREST																																	
PLAN DATE: MARCH 2025 REVIEWED BY: DSEARS		DocuSign®  3/10/2025 060183F28E5741E DATE																																
PREPARED BY: WPJONES REVIEWED BY:																																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;">REVISONS</th> <th style="width: 20%;">INIT.</th> <th style="width: 20%;">DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>			REVISONS	INIT.	DATE																													
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